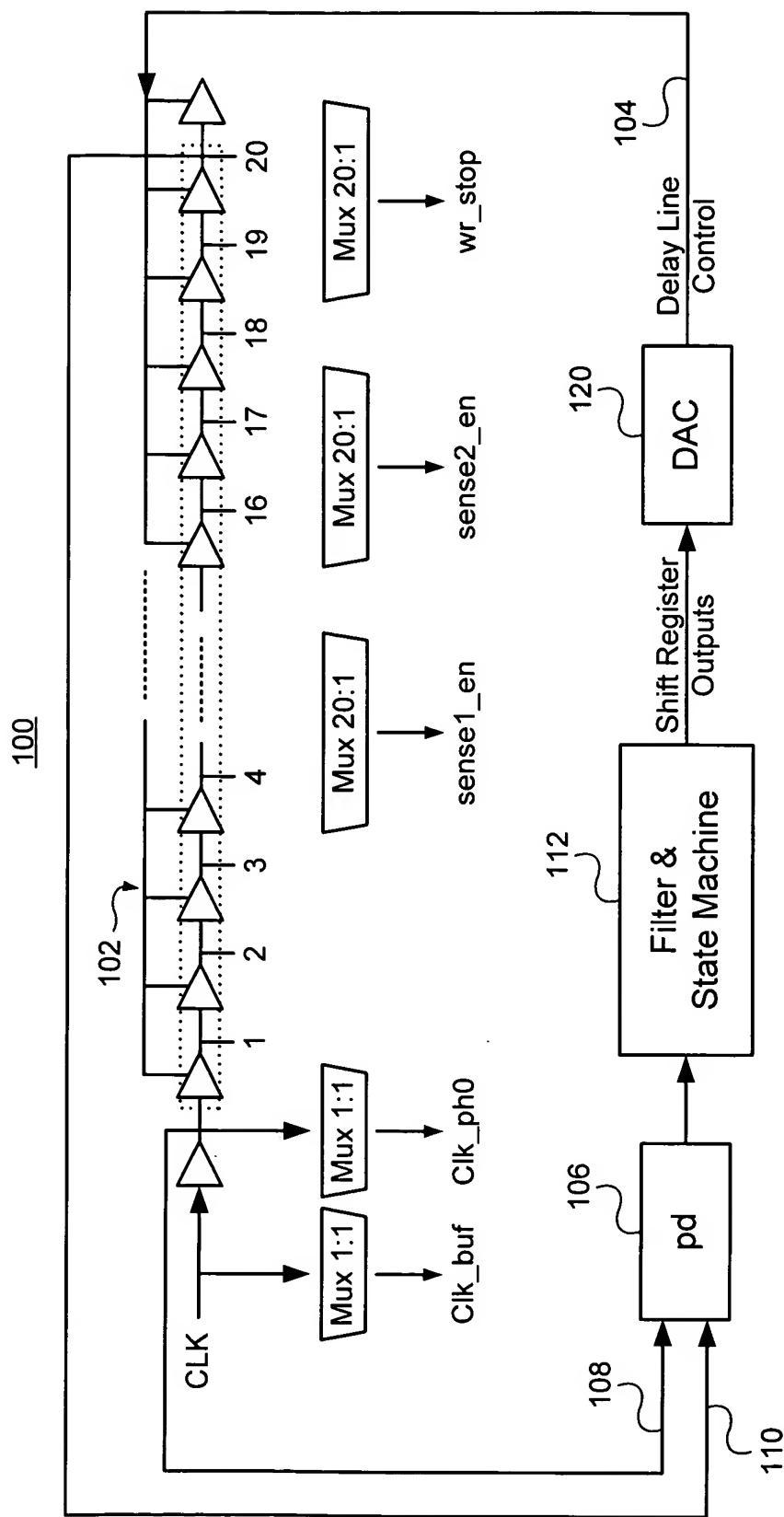
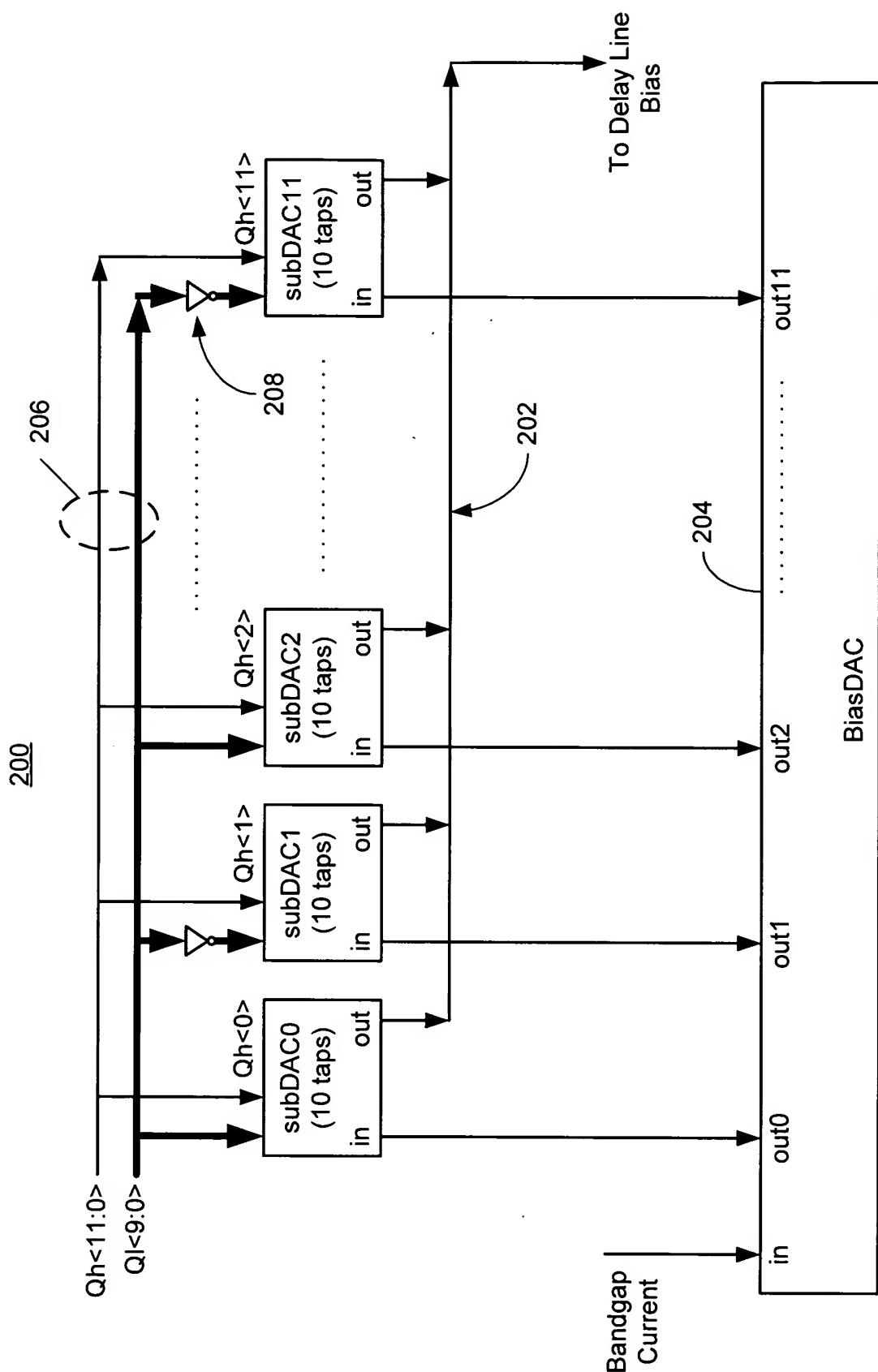


**FIG. 1**





**FIG. 2**

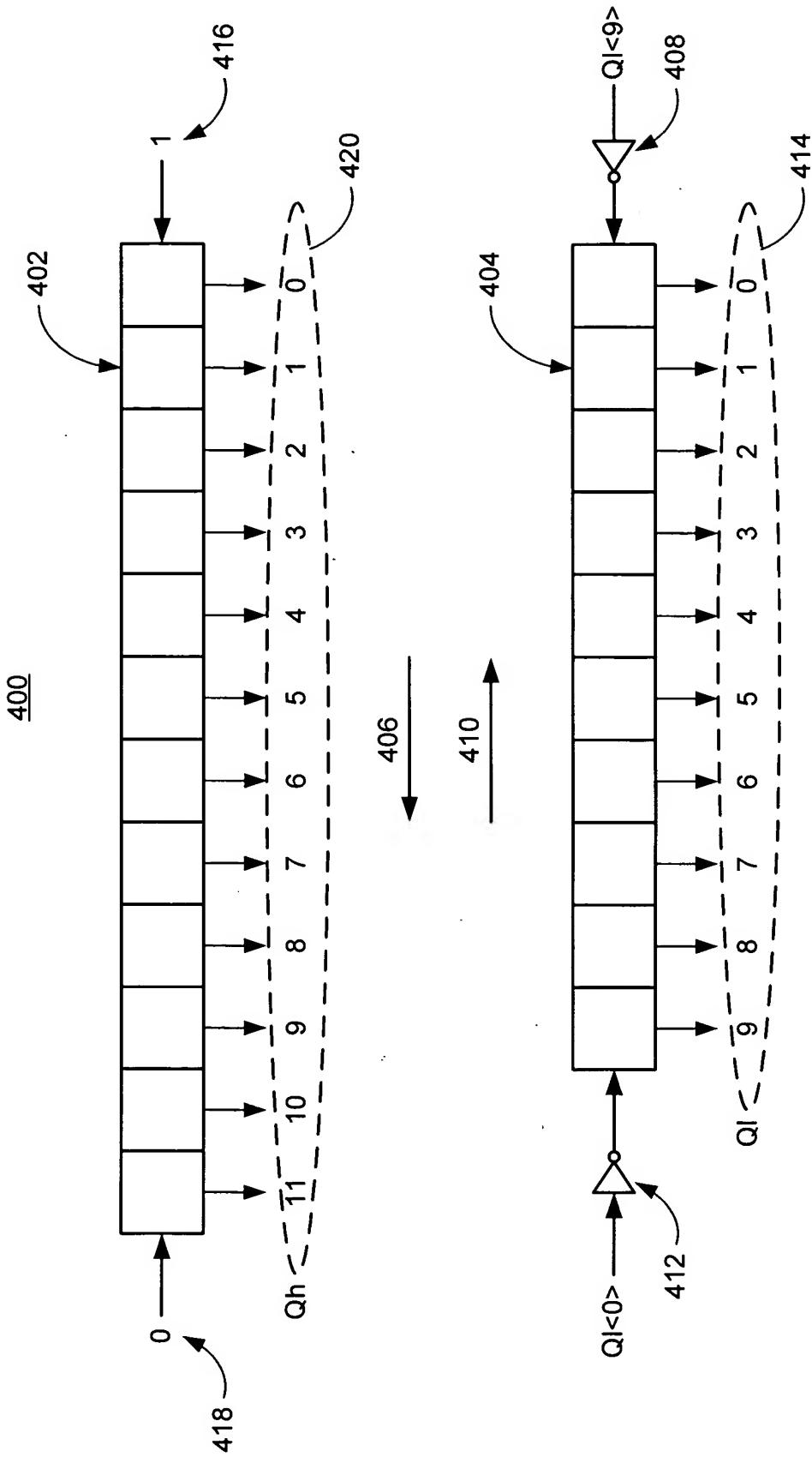
Fig. 3A

Code #	Qh<11:0>										Qi<9:0>					Current ((Iout-Imin)/Itg)			Total Current (Iout/l/min)				
	11	10	9	8	7	6	5	4	3	2	1	0	9	8	7	6	5	4	3	2	1	0	
40	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	48.89	1.4889
41	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	50.37886373	1.5037886373
42	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	51.8826161	1.518826161
43	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	53.401406	1.53401406
44	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	54.93538379	1.5493538379
45	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	1	56.48470136	1.5648470136
46	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	58.04951211	1.5804951211
47	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	59.62997097	1.5962997097
48	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	61.22623441	1.6122623441
49	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	1	1	1	1	1	1	62.83846049	1.6228384605
50	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	64.46	1.6446
51	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	66.10463182	1.6610463182
52	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	67.76570996	1.67776571
53	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	69.44339888	1.6944339889
54	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	71.13786469	1.7113786467
55	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	72.84927516	1.728492752
56	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	74.57779974	1.7457779977
57	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	76.32360956	1.7632360956
58	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	78.08687747	1.7808687747
59	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	79.86777807	1.798677781
60	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	81.67	1.8167
61	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	83.4866967	1.834866967
62	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	85.32156036	1.853215604
63	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	87.1747727	1.871747727
64	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	89.04651709	1.890465171
65	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	90.93697896	1.90936979
66	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	92.8463454	1.928463454
67	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	94.7748056	1.947748056
68	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	96.72255036	1.967225504
69	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	98.68977256	1.9868977256
70	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	100.68	2.0068
71	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	102.6867634	2.026867634
72	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	104.7135944	2.047135944
73	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	106.7606937	2.067606937
74	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	108.828264	2.08828264
75	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	110.91651	2.1091651
76	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	113.0256385	2.130256385
77	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	115.1558582	2.151558582
78	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	117.3073802	2.173073802
79	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	119.4804173	2.194804173

Fig. 3B

Code #	Qh<11:0>										Qi<9:0>						Current (Iout/Imin)/lbg)			Total Current (Iout/Imin)		
	11	10	9	8	7	6	5	4	3	2	1	0	9	8	7	6	5	4	3	2	1	0
80	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	2.2167
81	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	2.238867152
82	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	2.261255976
83	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	2.288868688
84	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	2.306707527
85	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	132.9774754
86	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	135.3072654
87	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	137.6603533
88	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	140.036972
89	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	142.437357
90	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	144.86
91	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	147.3086327
92	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	149.7817517
93	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	152.2796019
94	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	154.8024306
95	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	157.3504875
96	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	159.9240251
97	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	162.523298
98	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	165.1495637
99	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	167.8000082
100	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	170.48
101	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	173.1848138
102	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	175.9166758
103	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	178.6759564
104	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	181.4626288
105	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	184.2772689
106	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	187.1200554
107	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	189.9912698
108	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	192.8911963
109	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	195.8201221
110	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	198.78
111	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	201.7677972
112	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	204.7854724
113	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	207.8333243
114	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	210.9116547
115	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	214.0207685
116	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	217.1609734
117	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	220.3325803
118	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	223.5359033
119	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	226.7712596
120	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	230.04

Fig. 3C



**FIG. 4**